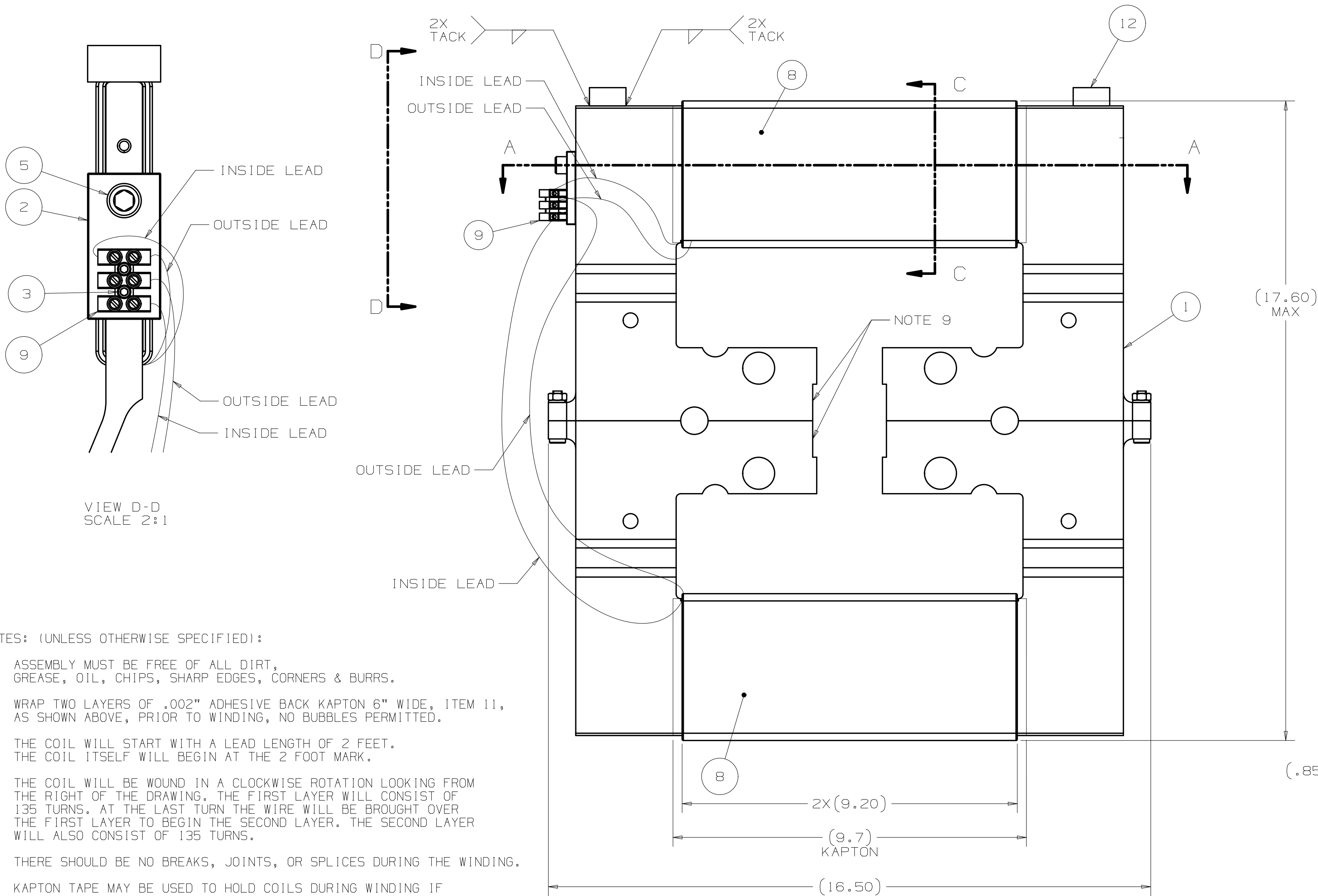
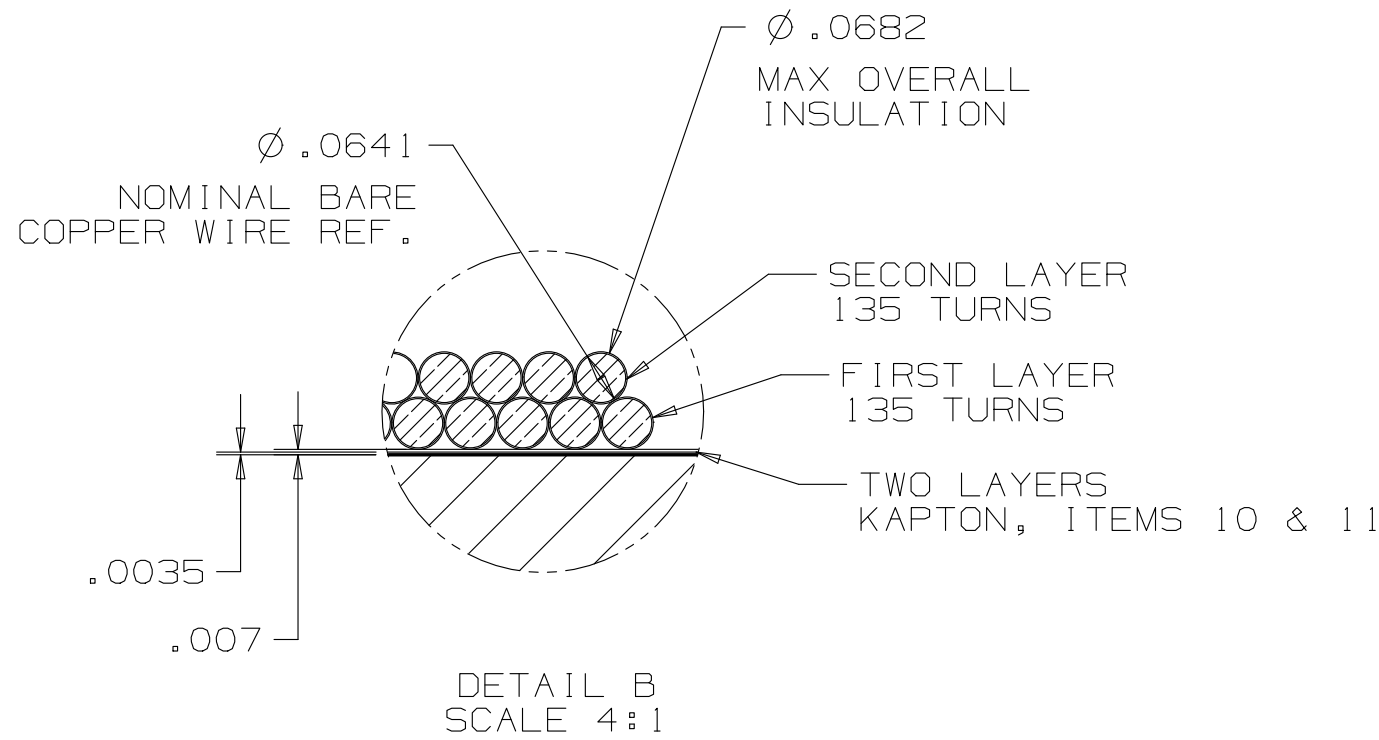
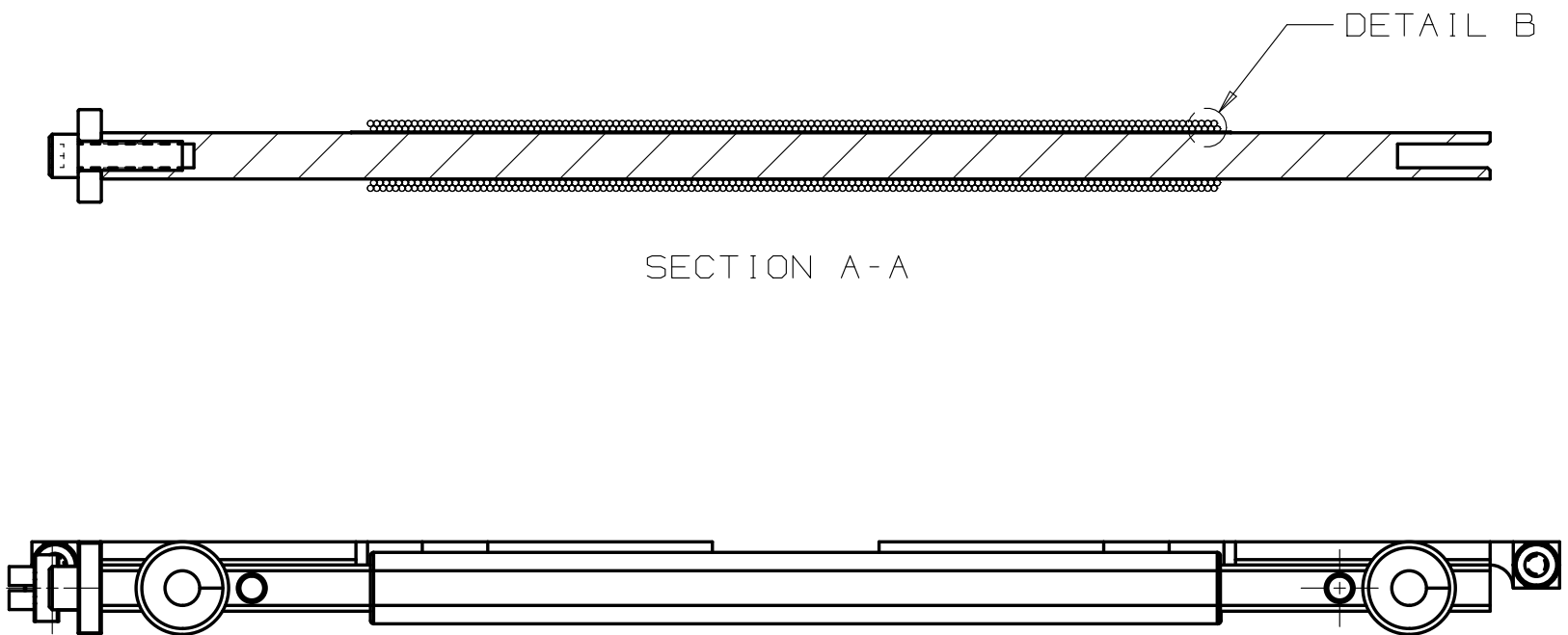
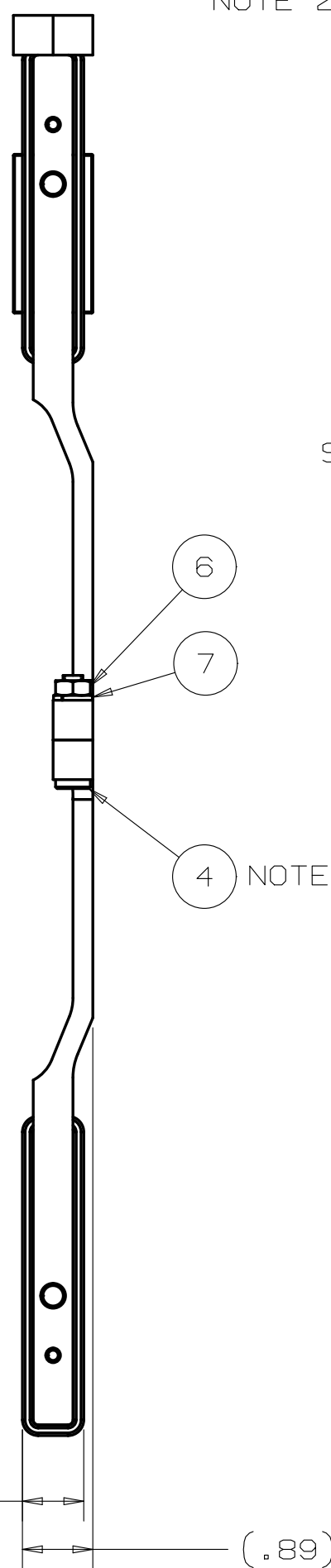
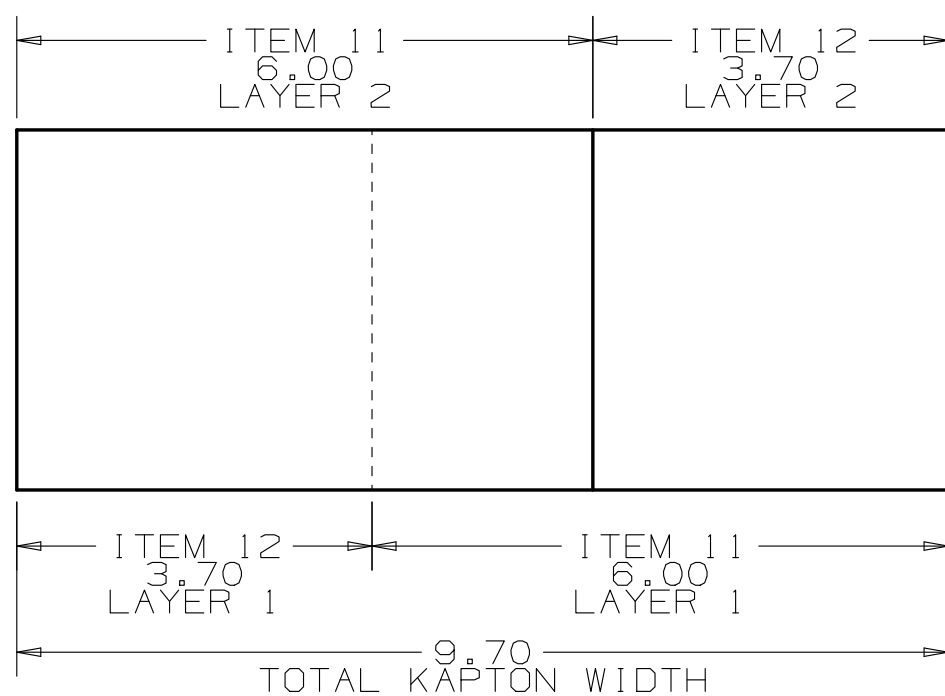
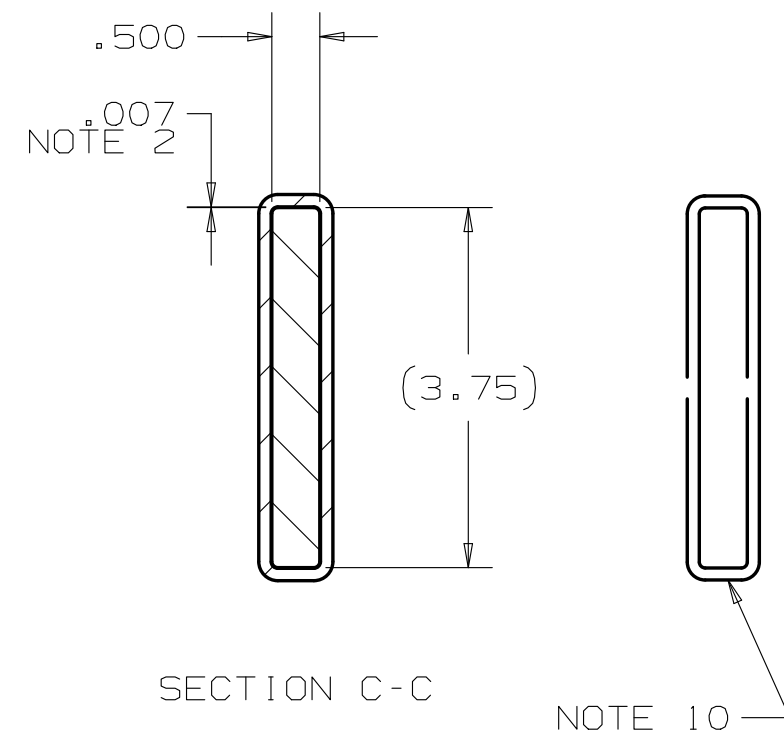


REV	REVISION CONTROL DOCUMENT	DATES	SIGNATURES
-	F10004004---RCD		DRAWN APPROVED


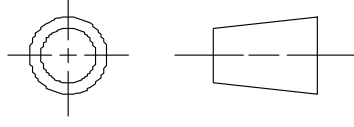


NOTES: (UNLESS OTHERWISE SPECIFIED):

1. ASSEMBLY MUST BE FREE OF ALL DIRT, GREASE, OIL, CHIPS, SHARP EDGES, CORNERS & BURRS.
2. WRAP TWO LAYERS OF .002" ADHESIVE BACK KAPTON 6" WIDE, ITEM 11, AS SHOWN ABOVE, PRIOR TO WINDING, NO BUBBLES PERMITTED.
3. THE COIL WILL START WITH A LEAD LENGTH OF 2 FEET. THE COIL ITSELF WILL BEGIN AT THE 2 FOOT MARK.
4. THE COIL WILL BE WOUND IN A CLOCKWISE ROTATION LOOKING FROM THE RIGHT OF THE DRAWING. THE FIRST LAYER WILL CONSIST OF 135 TURNS. AT THE LAST TURN THE WIRE WILL BE BROUGHT OVER THE FIRST LAYER TO BEGIN THE SECOND LAYER. THE SECOND LAYER WILL ALSO CONSIST OF 135 TURNS.
5. THERE SHOULD BE NO BREAKS, JOINTS, OR SPLICES DURING THE WINDING.
6. KAPTON TAPE MAY BE USED TO HOLD COILS DURING WINDING IF NECESSARY. HOWEVER, IT SHOULD BE REMOVED SO AS NOT TO ADD TO THE COIL THICKNESS BUILDUP.
7. AFTER WINDING, WRAP ONE LAYER OF .002" ADHESIVE KAPTON. HALF LAP ACROSS EACH COIL PACKAGE.
8. TERMINATE LEADS AS SHOWN ABOVE. DEPENDING ON DIRECTION AND LOCATION OF MAGNET TERMINAL BLOCK MAY BE RELOCATED TO A MORE SUITABLE POSITION.
9. ALIGN POLE TIPS TO .002". AFTER POLE TIPS ARE ALIGNED, DRILL AND REAM FOR ITEM #4, SHOULDER SCREW, 5/16"x7/8"L6, 1/4-20.
10. THIS VIEW NOT TO SCALE, SPACING EXAGGERATED TO SHOW WRAPPING CONFIGURATION. TWO LAYERS OF KAPTON TO HAVE STAGGERED SEAMS.



12	FC0035594	MAGNET NEST BALL TARGET	2
11	FC0035541	KAPTON, .002" THK X 4" WIDE, ADHESIVE BACK	17"
10	FC0035540	KAPTON, .002" THK X 6" WIDE, ADHESIVE BACK	17"
9	FC0035061	TERMINAL BLOCK 3 CIRCUIT, 5/16" CTR TO CTR, McMASTER-CARR P/N 7618K612	1
8	FC0034009	COIL, MAGNET, PSQA	A/R
7	FC0016375	WASHER-SPLIT, 1/4-0.254x0.49x0.06, SS18-8	2
6	FC0014124	NUT-HEX, 1/4-20x8.1875, SS18-8	2
5	FC0003391	SHCS, 5/16-18x1.125LGxFT, SS18-8	1
4	FC0022655	HDSS, 0.3125Dx0.875Lx1/4-20, AS	2
3	FC0003199	SHCS, 4-40x0.625LGxFT, SS18-8	2
2	F10005046	TERMINAL CONNECTION PLATE	1
1	F10004002	CORE, MAGNET, PSQA	2
ITEM NO.	PART NO.	DESCRIPTION	QTY

UNLESS OTHERWISE SPECIFIED					DRAWN	J.KURNAT	DATE	25-Feb-2013	 FERMI NATIONAL ACCELERATOR LABORATORY UNITED STATES DEPARTMENT OF ENERGY NAME MAGNET ASSEMBLY, PSDCA SCALE 1:2 SIZE D DRAWING NUMBER F10004004 SHEET 1 OF 1 REV -			
±.X	±.XX	±.XXX	±X/X	±X°	CHECKED	B.ROBOTHAM	DATE	18-Jun-2013				
.1	.02	.005	1/16	1°	APPROVED	B.ROBOTHAM	DATE	18-Jun-2013				
BREAK ALL SHARP EDGES .015 MAX. DO NOT SCALE DRAWING DIMENSIONS BASED ON ASME Y14.5M-1994 MAX. ALL MACH SURFACES 125/ DRAWING UNITS: INCHES 					USED ON							
					MATERIAL				SEE PARTS LIST			
					GROUP: Technical Division - Design and Drafting				CAGE CODE: OUSR6			